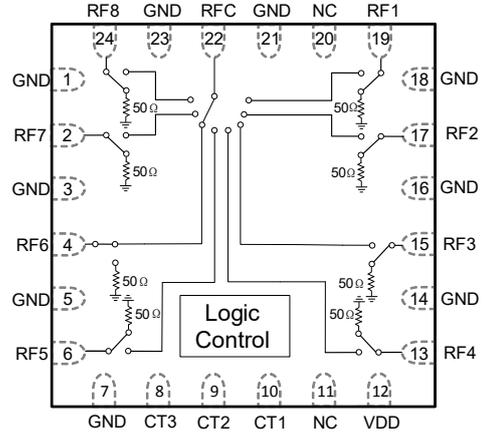




主要特点

- 工作频段: DC - 4 GHz
- 插损: 1.9 dB
- 隔离度: 40 dB
- P-0.1: 30 dBm
- IIP3: 56 dBm
- ESD: 2kV (HBM)
- 封装: 24 Lead, 4mm×4mm QFN

功能框图

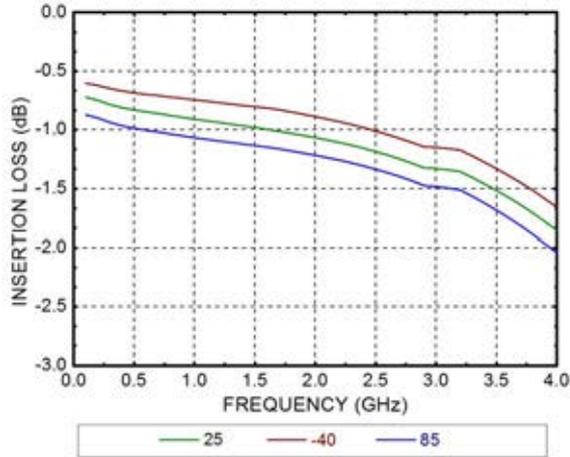


性能指标 ($T_A = +25^\circ\text{C}$, $V_{DD} = 2.5\text{V} \sim 5\text{V}$, $V_{CTL} = 0\text{V}/V_{DD}$, 50Ω)

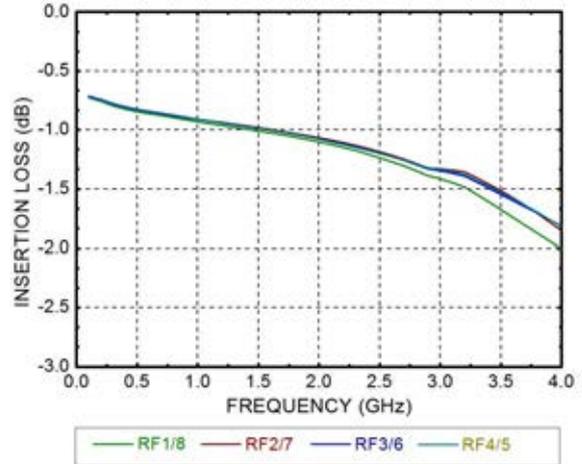
参数	条件		最小	典型	最大	单位
插损	0.1GHz~2.0GHz			0.9	1.1	dB
	2.0GHz~4.0GHz			1.6	1.9	dB
隔离度	RFC~RFX	0.1GHz~2.0GHz	43	50		dB
		2.0GHz~4.0GHz	38	40		dB
	RFX~RFX	0.1GHz~2.0GHz	48	55		dB
		2.0GHz~4.0GHz	38	45		dB
回波损耗	开态	0.1GHz~2.0GHz		20		dB
		2.0GHz~4.0GHz		13		dB
开关时间	导通	50% VCTL to 90% RF		80		ns
	关断	50% VCTL to 10% RF		80		ns
输入功率压缩点	P-0.1	VDD=5V		30		dBm
	P-1	VDD=5V		30		dBm
IIP3	POUT=12dBm/tone			56		dBm
工作电压	VDD		2.5	3	5	V
控制电压范围	V1, V2, V3		0		VDD	V
控制电压输入电平范围	VDD=+5.0V	低电平 (VIL)	0		0.6	V
		高电平 (VIH)	1.1		VDD	V
功耗	VDD=+5.0V			65		μA



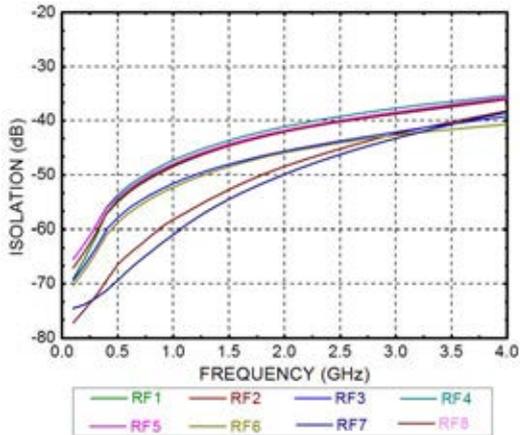
插损 vs. 温度



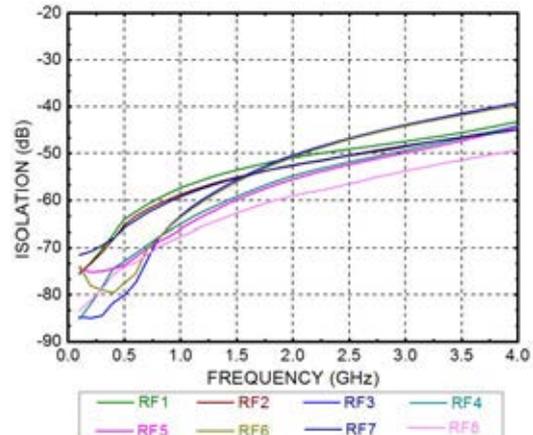
插损 vs. 频率



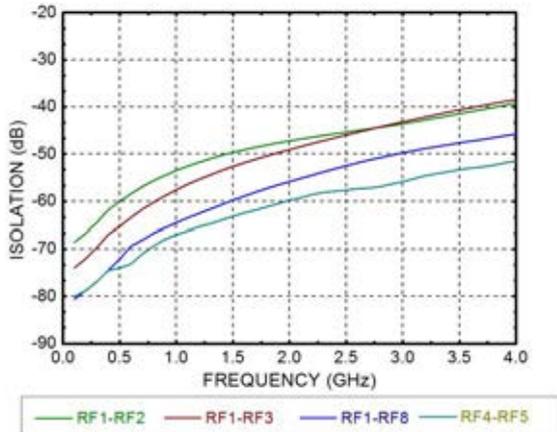
RFC-RFX 隔离度 (相邻端口导通)



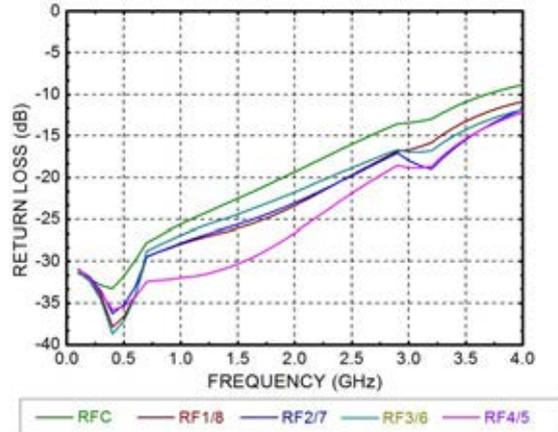
RFC-RFX 隔离度 (对向端口导通)



RFX-RFX隔离度

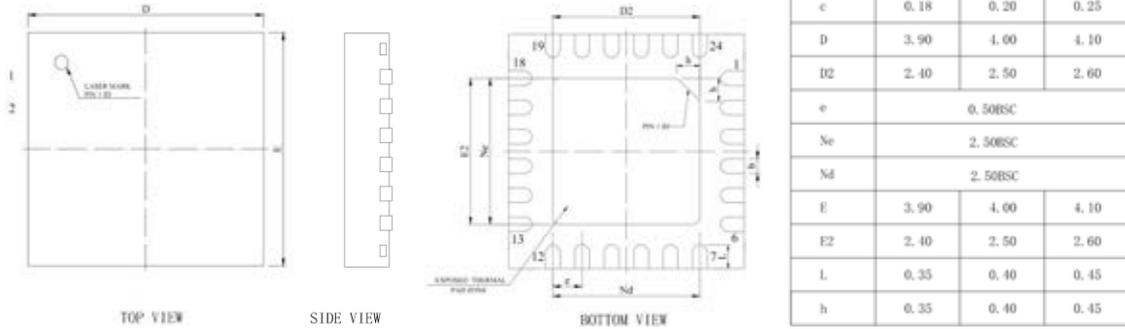


ON状态下回波损耗



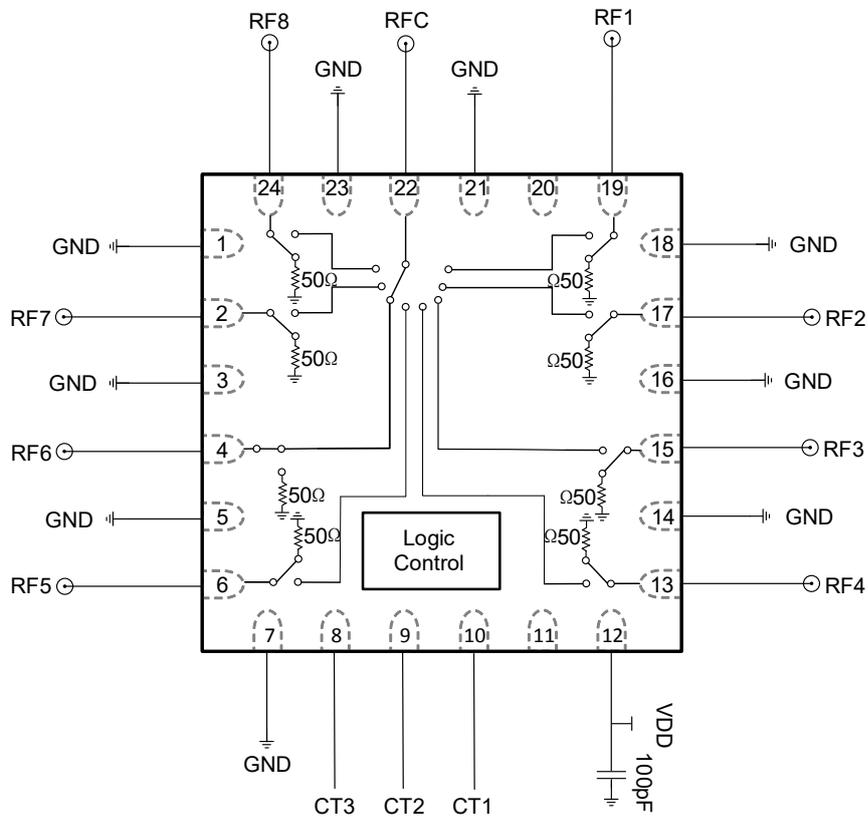


封装框架



单位: mm

应用框图





控制关系

状态	V1	V2	V3
RFC-RF1 ON	0	0	0
RFC-RF2 ON	1	0	0
RFC-RF3 ON	0	1	0
RFC-RF4 ON	1	1	0
RFC-RF5 ON	0	0	1
RFC-RF6 ON	1	0	1
RFC-RF7 ON	0	1	1
RFC-RF8 ON	1	1	1

极限参数

参数	备注	数值	单位
工作电压	VDD	5.5	V
控制电压	V1, V2, V3	5.5	V
存储温度	-	-65~150	°C
热阻	直通	110	°C/W
	负载	100	°C/W
ESD	HBM	2	kV